

### REMARKS

Claims 1-63 were presented for examination. Claim 28 was previously canceled. Claims 1-27 and 29-63 are pending and rejected. Reconsideration is respectfully requested.

#### Specification:

The disclosure is objected to because of informalities. The disclosure has been amended to correct the informalities.

The sentence beginning on page 9, line 1 has been amended as required by the examiner. Therefore the objection should be withdrawn.

#### The 35 U.S.C. 101 Rejections:

Claims 6, 25 and 50 are rejected under 35 U.S.C. 101. Claims 6, 25 and 50 have been canceled. Therefore the rejections should be withdrawn.

#### The 35 U.S.C. 112 Second Paragraph Rejections:

Claims 6, 23, 24, 44, 50 and 61 are rejected as being indefinite.

Claims 6 and 50 have been canceled.

Claim 23 has been amended to clarify that the ion beam comprises an energy distribution.

Claim 24 has been amended to clarify that the object induces an ion implantation depth on the ion beam, rather than a stopping power.

Claims 44 and 61 have been amended as suggested by the examiner.  
Therefore the rejections should be withdrawn.

The 35 U.S.C. 102 Rejections:

Claims 1, 45 are rejected under 35 U.S.C. 102(b) and 102(e) as being anticipated by Kane et al.

Claims 1 and 45 have been amended to include the subject matter of claims 11 and 55 respectively, which the examiner has indicated to be allowable. Therefore the rejection should be withdrawn.

Claims 2, 41-43, 46 and 58-60 are rejected under 35 U.S.C. 102(b) and 102(e) as being anticipated by Kane et al.

Claims 2 and 41-43 depend from claim 1, which should be allowable as discussed above. Claims 46 and 58-60 depend from claim 45, which should be allowable as discussed above. Therefore, the rejection should be withdrawn.

Claims 3, 4, 7, 8, 11, 12, 44, 47, 48, 51, 52, 55, 56 and 61 are rejected as being anticipated by Kane et al.

Claims 3, 4, 7, 8, 11, 12 and 41 depend from claim 1. Claims 47, 48, 51, 52, 55, 56 and 61 depend from claim 45. Claims 1 and 45 should be allowable as discussed above. Therefore the rejection should be withdrawn.

The 35 U.S.C. 103(a) Rejections

Claims 6 and 50 are rejected as being unpatentable over Kane et al. Claims 6 and 50 have been canceled. Therefore the rejection should be withdrawn.

Claims 13-19, 27, 35-40 and 63 are rejected as being unpatentable over Kane et al. as applied to claims 1 and 45 above, and further in view of Barrett et al.

Claim 13 has been amended to include the limitations of claim 14, which the examiner has indicated to be allowable. Claim 14 has been canceled. Claims 15-19, 27, 35-40 and 63 should be allowable because they depend from claim 13. Therefore the rejection should be withdrawn.

Claims 5, 9, 49 and 53 are rejected as being unpatentable over Kane et al as applied to claims 1 and 45 above, and further in view of Monastra et al. The rejection is respectfully traversed.

Claims 1 and 45 should be allowable as discussed above. Claims 5 and 9 depend from claim 1. Claims 49 and 53 depend from claim 45. Therefore the rejection should be withdrawn.

Claims 10, 29-34, 54 and 57 are rejected as being unpatentable over Kane et al. as applied to the parent/base claims 1 and 45 above, and further in view of Westinghouse Savannah River Company website publication and/or Bostick et al.

Claims 10, 29-34 depend from claim 1, and should therefore be allowable. Claims 54 and 57 depend from claim 45 and should therefore be allowable. Please note that claim 33 does not attempt to recite tagging computer software, rather, it recites tagging the media on which the software is written. Therefore the rejection should be withdrawn.

Claims 20-22 are rejected as being unpatentable over Kane et al. in view of Barrett-235, as applied to the parent/base claims 19 and 13 above, and further in view of Guilberg et al.

Claims 20-22 should be allowable because they depend from claim 13. Therefore the rejection should be withdrawn.

Claims 23 and 24 are rejected as being unpatentable over Kane et al. in view of Myron.

Claims 23 and 24 have been amended to include patentable subject matter as suggested by the examiner. Therefore the rejection should be withdrawn.

#### Allowable Subject Matter

Claims 11, 14, 22-24 and 55 have been identified by the examiner as containing potentially allowable subject matter provided that the applicant can meet certain listed conditions. The applicant has made an effort to meet the conditions set forth by the examiner.


The examiner has indicated that claims 5, 6, 9, 13, 49, 50 and 53 contain subject matter that would be allowable if new matter can be avoided.

Conclusions

It is submitted that this application is in condition for allowance based on claims 1-5, 7-10, 12-13, 15-24, 26-49, 51-54 and 56-63 view of the amendments thereto and the foregoing comments.

If any impediments remain to prompt allowance of the case, please contact the undersigned at 808-270-1011.

Respectfully submitted,

  
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